

to farmland; in addition, to urban heat island effects of nearby towns. Thanks team!" - ECOSTRESS Early Adopter

SECOSTRESS

ECOsystem Spaceborne Thermal Radiometer Experiment on Space Station

Applications and Early Adopters
ECOSTRESS Science and Applications Team
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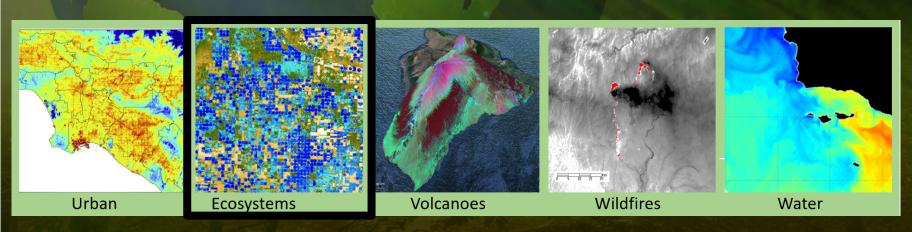
ECOSTRESS Applications

- ISS as a platform for innovative science and applications
- Foundation for applications / applied science set in mission science objectives – focusing on agriculture and drought
- Provision of standard L2 L4 products enables a primary mission applied science objective, and also for a wide variety of other science / applications themes



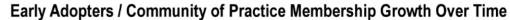
Guiding Tenets

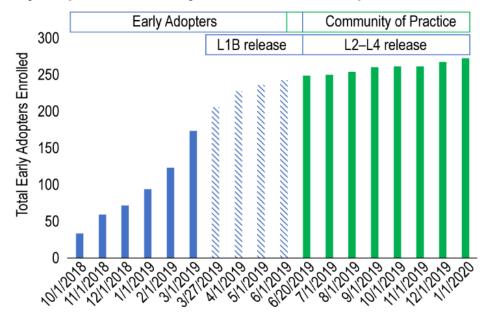
- Build a diverse and agile community of practice towards improving mission goals and outcomes and increase societal benefit
- Reduce mission risk for ECOSTRESS and future missions like SBG by adapting EAs
- Develop a framework to demonstrate uses, benefits of ECOSTRESS data and provide feedback to project and data systems teams



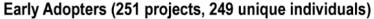
Early Adopters

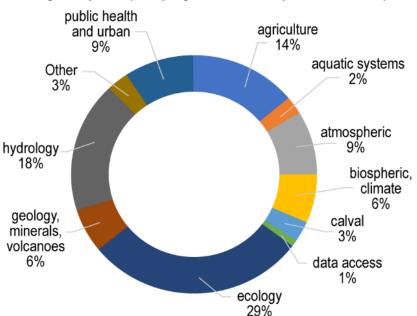
- Early Adopters (EA) initiated in September 2018, after launch
- 35 Adopters granted access initially through NASA Earth data
- 206 EAs at the release of L1B data (March 2019), 249 at L2-L4 release (June 2019)
- After L2-L4, EAs became Community of Practice (COP)



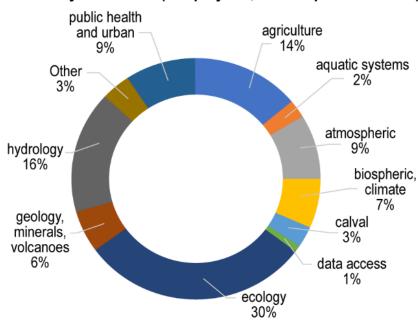


Early Adopters





Community of Practice (283 projects, 272 unique individuals)



• 33-35% of Early Adopters self-identified as Applied (about 90 projects)

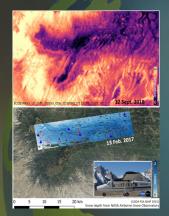
Partnership with LP.DAAC

- Unique collaboration and implementation of Early Adopters
- Close collaboration on trainings (ecostress swath2grid.py -> AppEEARS)
- Co-presenting NASA Earthdata webinar, ARSET trainings – the latter which drew 412 participants online from 62 countries, from over 200 unique orgs.

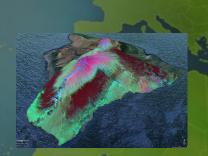


Early Adopter Highlights and Decadal Survey

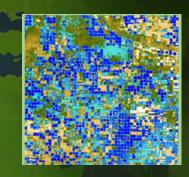
ECOSTRESS Early Adopters have helped demonstrate the necessity of ECOSTRESS data to address critical SBG Most Important, Very Important, and Important questions from the 2017 Decadal Survey, across all TO-18 areas



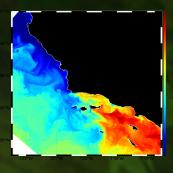
Cryosphere and Hydrology



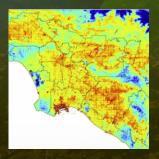
Surface Geology

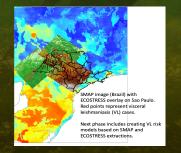


Ecosystems (Terrestrial)



Ecosystems (Aquatic)

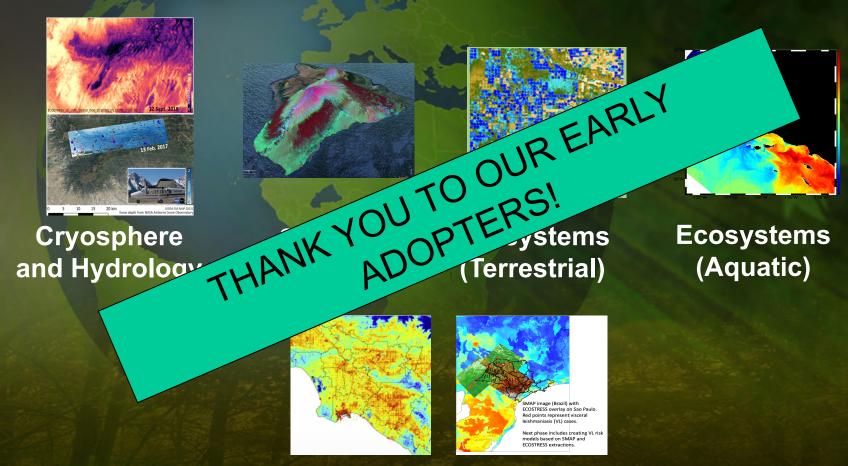




Weather and Public Health

Early Adopter Highlights and Decadal Survey

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Weather and Public Health

Join the Community of Practice and Slack Channel

https://ecostress.jpl.nasa.gov/early-adopters

